



**CONESTOGA-ROVERS  
& ASSOCIATES**

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October 24, 2008

Reference No. 038443

Ms. Karen Cibulskis  
Remedial Project Manager  
United States Environmental Protection Agency  
Region V  
77 West Jackson Boulevard  
Mail Code SR-6J  
Chicago, IL 60604

Dear Karen:

Re: Results of Leachate Seep Investigation  
South Dayton Dump and Landfill Site Moraine, Ohio (Site)

This letter report summarizes the results of the Leachate Seep Survey completed at the Site. Conestoga-Rovers & Associates (CRA) completed the Leachate Seep Survey on behalf of the South Dayton Dump and Landfill Potentially Responsible Party Group (PRP Group). CRA completed the Leachate Seep Investigation in accordance with the Leachate Seep Investigation Letter Work Plan dated May 7, 2008, which was approved by the United States Environmental Protection Agency (USEPA) on May 5, 2008.

A Site Plan showing the area surveyed during the Leachate Seep Investigation is provided on Figure 1.

The objectives of the Leachate Seep Investigation, as described in Section 2.4 of the Field Sampling Plan, and in the Final Leachate Seep Investigation Letter Work Plan, were as follows:

1. complete a seep inspection at the Site to identify the location, extent, and characteristics of seeps observed along Site embankments and in other on-Site and near-Site areas;
2. characterize seeps observed along Site embankments and in other areas; and
3. identify any area(s) that may require further investigation.

The work undertaken to achieve these objectives is described further below.

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Equal  
Employment Opportunity  
Employer

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REGISTERED COMPANY FOR  
**ISO 9001**  
ENGINEERING DESIGN



### VISUAL SEEP INSPECTION

CRA completed a visual inspection of the following areas at the Site:

- the embankments and nearby areas on the west side of the Site (adjacent to the Great Miami River);
- embankments and nearby areas to the north including to the north of the Valley Asphalt property;
- areas surrounding the Quarry Pond;
- embankments and nearby areas along the central access road;
- embankments and nearby areas in the vicinity of the air curtain destructor;
- embankments and the area in the vicinity of the Small Pond; and
- embankments and the area in the vicinity of the Large Pond.

The Leachate Seep Investigation consisted of a visual inspection of the entire embankment surface, nearby areas, and low lying areas with an objective to document evidence of groundwater or leachate discharge from the bank and other nearby or low-lying areas. Specific items that were investigated include identification of erosion rills, areas of surface staining and/or stressed vegetation, and wet or saturated areas resulting from seeping liquid.

The seep investigation was completed over two days, on September 22, and 29, 2008. Weather conditions prior to and during the seep investigation were monitored. No rain had occurred at the Site during the three days prior to each day of the seep investigation. The areas surveyed for leachate seeps are provided on Figure 1. The embankments along the west side and to the north were examined on September 29, 2008, while the remaining areas were examined on September 22, 2008. During the investigation, no seeps were observed. Furthermore, no erosion rills, areas of surface staining and/or stressed vegetation, and wet or saturated areas resulting from seeping liquid were observed during the seep investigation.

Site personnel who conducted the seep investigation were involved previously with preparing the Site for the geophysical study and hence became familiar with Site conditions through clearing vegetation and surveying of the Site. Although informal, Site personnel were asked to be observant of seeps during the clearing, survey, and geophysical activities at the Site. No seeps were identified during these aforementioned activities. As field work continues through the remainder of 2008 and into 2009, field staff will continue to monitor for the presence of leachate seeps. Should a seep be identified at a later date, the seep location will be flagged, and the Seep Characterization activities, as described in Section 2.4.2 of the Field Sample Plan and the Final Leachate Seep Investigation Letter Work Plan, will be implemented.



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Should you have any questions on the above, please do not hesitate to contact us.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

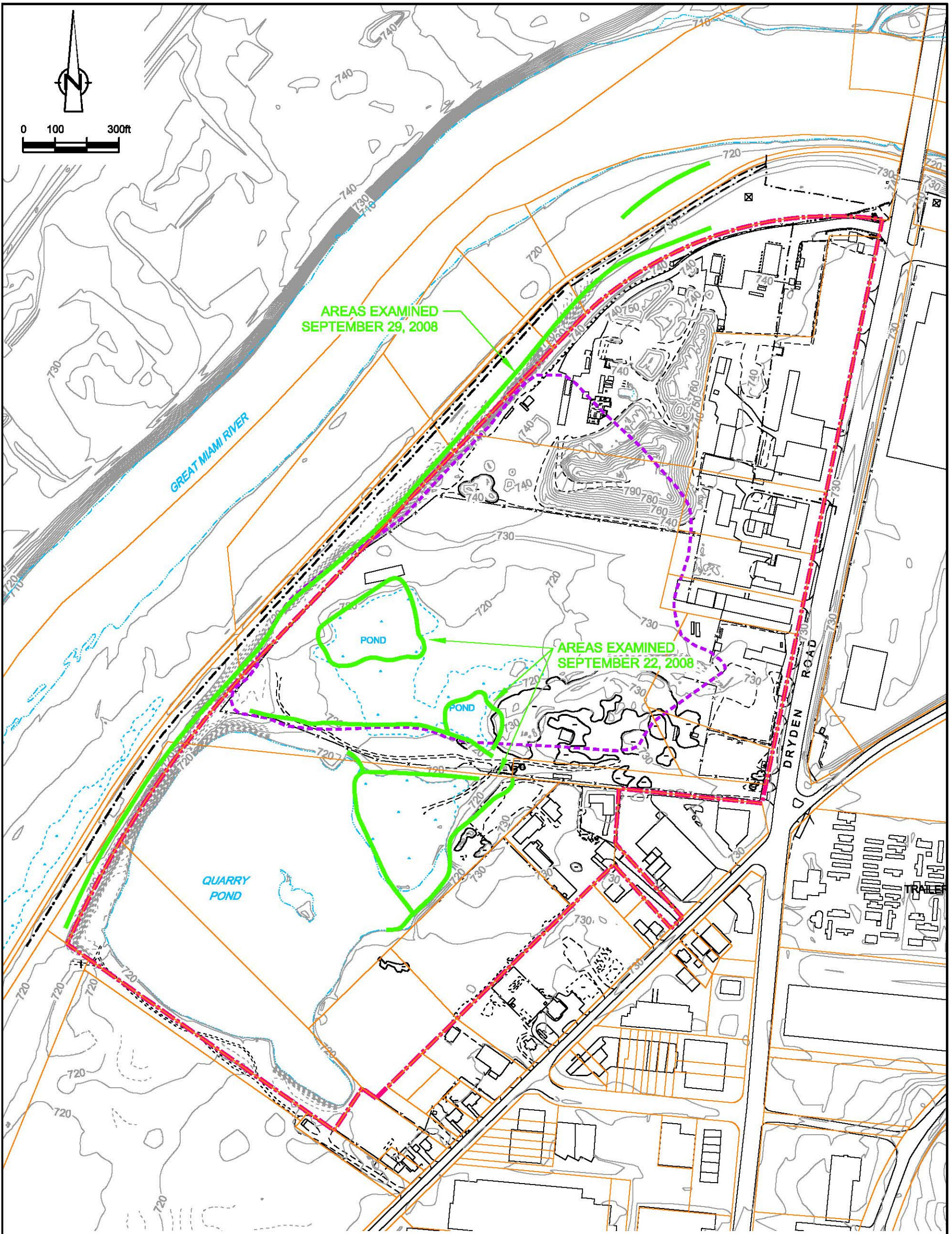
Stephen M. Quigley

AL/ca/49

Encl.

c.c.    Matt Mankowski, USEPA (PDF)  
         Matt Justice, Ohio EPA (PDF)  
         Brett Fishwild, CH2M Hill (PDF)  
         Scott Blackhurst, Kelsey Hayes Company (PDF)  
         Wray Blattner, Thompson Hine (PDF)  
         Ken Brown, ITW (PDF)  
         Jim Campbell, Engineering Management Inc. (PDF)  
         Tim Hoffman, Representing Kathryn Boesch and Margaret Grillot (PDF)  
         Paul Jack, Castle Bay (PDF)  
         Robin Lunn, Winston & Strawn (PDF)  
         Roger McCready, NCR (PDF)  
         Karen Mignone, Pepe & Hazard (PDF)  
         Lou Almeida, CRA (PDF)  
         Adam Loney, CRA (PDF)





**LEGEND**

- SITE BOUNDARY (SOW 2006)
- PRELIMINARY DIRECT CONTACT RISK PRESUMPTIVE REMEDY AREA
- 730 --- EXISTING GROUND CONTOUR (2 FT CONTOUR INTERVAL)
- EDGE OF WATER
- PARCEL BOUNDARY
- PIPELINE



SOURCES:  
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;  
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;  
CITY OF MORAINES  
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

figure 1

**LEACHATE SEEP INVESTIGATION - SEPTEMBER 2008  
SOUTH DAYTON DUMP AND LANDFILL SITE  
Moraine, Ohio**



## ATTACHMENT A

### FIELD NOTES

Monday, Sept 22, 2008

Weather - Clear & warm 80's

Personal - CRA - Jeremy Winterink  
 Scott Alexander  
 Paul Cooper (Aerostek)  
 Ken Vondermuehlen

- Bob Cam - Allied - ACM <sup>✓</sup> Sampling
- Jason w/ Bloodhound (CHUMMY)
- Greg Lewis - PM, Osage PM

- 3) Activities - no power @ site
- Reviewed HAST w/ Scott, Paul, Kent & Jos
  - Reviewed site conditions, preliminary TP locations w/ Ken
  - Reid load of potable water from <sup>"water hauler"</sup> ~~city water~~ delivery - water source - City of Bellbrook, Mo. <sup>near</sup> ~~near~~   
 - placed into Fractank (next to trailer)
  - Reviewed Test pit FSP + ISA, also sample procedures & requirements.
  - Scott reviewed & worked on Decon setup.
  - Reid + setup a 20' corner box for sample storage - located near site trailer
  - Allied set up ACM background samples and TP-1 area
  - Reid coolers w/ sample jars, etc - sorted through what arrived. Verified sample collection protocols & bottles.
  - SW conducted seep investigation (in Pa accompanied by Osage). Areas examined include - small & large ponds, air curtain destructor, East & north banks of Quarry Pond.
  - No seeps were observed or identified

→ over

Monday Sept 22, 2008  
Weather - Clear & Sunny, warm 80's  
w/ wind from East

1500 Jeeper Winterkill - CRA  
Osageans - CH<sub>2</sub>M Hill

"Seep Investigation"  
leave trailer - head west.

- Small Pond Area.

2200 - Pond is dry. No  
seeps or springs identified.

- Large Pond Area  
- W.L. on Staff Gage 0.25"

235 - no seeps @ Large Pond  
no seeps @ base of old  
aerobic view Air Cation  
destructors.

240 Young Pond  
- NW corner - dry. Seeps  
Salvage yard - no seeps.

255 - continued along lower  
east edge of pond - no

seeps  
2306 Staff Gage level = 2.29'  
320. Seep investigation to resume  
on 9-23 along gage west  
embankment - 72 Apr.

done

Monday Sept 29, 2008  
Weather - Clear & Sunny - 80°

Personnel - Jeeper Winterkill

1400 Jeeper Winterkill examines the  
west embankment of the site

- Begin @ south end - under power line  
- Proceed northwards - heavy brush  
and undergrowth along base. Slow  
going to examine.

- no seeps or stains observed.  
- several metal containers on surface  
half way up embankment. north  
end south of Test trench #3

location. Containers vary in size  
between 2 gallon to 55 gallon. All  
are rusted in poor condition.  
1600. Inspection completed.

done